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Official Name

1-deoxy-D-xylulose-5-phosphate reductoisomerase.

Alternative Name(s)

1-deoxyxylulose-5-phosphate reductoisomerase.

DXP-reductoisomerase.

Reaction catalysed

2-C-methyl-D-erythritol 4-phosphate + NADP(+) <=> 1-deoxy-D-xylulose 5-phosphate + NADPH

Cofactor(s)

Manganese or Cobalt or Magnesium.

Comment(s)

The enzyme from several eubacteria, including Escherichia coli, forms part of an alternative nonmevalonate pathway for terpenoid biosynthesis.

Cross-references

BRENDA	1.1.1.267
PUMA2	1.1.1.267
PRIAM enzyme-specific profiles	1.1.1.267
Kyoto University LIGAND chemical database	1.1.1.267
IUBMB Enzyme Nomenclature	1.1.1.267
IntEnz	1.1.1.267
MEDLINE	Find literature relating to 1.1.1.267

Q81N10,	DXR1_BACAN;	Q81B49,	DXR1_BACCR;	Q638M6,	DXR1_BACCZ;
Q6HG59,	DXR1_BACHK;	Q81WL4,	DXR2_BACAN;	Q819Y3,	DXR2_BACCR;
Q636K5,	DXR2_BACCZ;	Q6HEZ4,	DXR2_BACHK;	Q6FCG9,	DXR_ACIAD;
Q8UC86,	DXR_AGRT5;	Q8YP49,	DXR_ANASP;	O66722,	DXR_AQUAE;
Q9XFS9,	DXR_ARATH;	Q732P8,	DXR_BACC1;	Q64PY9,	DXR_BACFR;
Q9KA69,	DXR_BACHD;	Q5WFT4,	DXR_BACSK;	O31753,	DXR_BACSU;
Q8A684,	DXR_BACTN;	Q8G7Y7,	DXR_BIFLO;	Q7WJ88,	DXR_BORBR;
Q7WA54,	DXR_BORPA;	Q7VYC4,	DXR_BORPE;	Q89KP9,	DXR_BRAJA;
P57329,	DXR_BUCAI;	Q8K9S7,	DXR_BUCAP;	Q62JD0,	DXR_BURMA;
Q63T18,	DXR_BURPS;	Q9PMV3,	DXR_CAMJE;	Q9A709,	DXR_CAUCR;
Q823G9,	DXR_CHLCV;	Q9PKW8,	DXR_CHLMU;	Q9Z8J8,	DXR_CHLPN;

UniProtKB/Swiss-Prot					
Q8KG43,	DXR_CHLTE;	O84074,	DXR_CHLTR;	Q7NVY8,	DXR_CHRVO;
Q97I58,	DXR_CLOAB;	Q8XJR1,	DXR_CLOPE;	Q895K5,	DXR_CLOTE;
Q6NGL1,	DXR_CORDI;	Q8FP80,	DXR_COREF;	Q8NP10,	DXR_CORGL;
Q9RU84,	DXR_DEIRA;	Q6AP35,	DXR_DESPS;	Q72DR3,	DXR_DESVH;
Q8X8Y1,	DXR_ECO57;	P45568,	DXR_ECOLI;	Q6D8D9,	DXR_ERWCT;
Q8R622,	DXR_FUSNN;	Q74BW4,	DXR_GEOSL;	Q7NID1,	DXR_GLOVI;
Q7VM27,	DXR_HAEDU;	P44055,	DXR_HAEIN;	Q9ZML6,	DXR_HELPJ;
P56139,	DXR_HELPY;	Q9AJD7,	DXR_KITGR;	Q6AEY1,	DXR_LEIXX;
Q72U08,	DXR_LEPIC;	Q8F146,	DXR_LEPIN;	Q92C37,	DXR_LISIN;
Q720A5,	DXR_LISMF;	Q8Y7G4,	DXR_LISMO;	Q65R75,	DXR_MANSM;
Q9XES0,	DXR_MENPI;	Q60BA4,	DXR_METCA;	P64013,	DXR_MYCBO;
Q9CBU3,	DXR_MYCLE;	Q73VS1,	DXR_MYCPA;	P64012,	DXR_MYCTU;
Q9JX33,	DXR_NEIMA;	Q9K1G8,	DXR_NEIMB;	Q82U01,	DXR_NITEU;
Q5YS72,	DXR_NOCFA;	Q6MEL5,	DXR_PARUW;	P57985,	DXR_PASMU;
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Q6A7K8,	DXR_PROAC;	Q7VB62,	DXR_PROMA;	Q7V6J8,	DXR_PROMM;
Q7V0W0,	DXR_PROMP;	Q9KGU6,	DXR_PSEAE;	Q88MH4,	DXR_PSEPK;
Q886N7,	DXR_PSESM;	Q8XZI5,	DXR_RALSO;	Q92LP6,	DXR_RHIME;
Q7URM5,	DXR_RHOBA;	Q6N5Q6,	DXR_RHOPA;	Q8Z9A6,	DXR_SALTI;
Q8ZRP3,	DXR_SALTY;	Q8EGG9,	DXR_SHEON;	Q83MD3,	DXR_SHIFL;
Q82K41,	DXR_STRAW;	Q9KYS1,	DXR_STRCO;	Q67PA9,	DXR_SYMTH;
Q8DK30,	DXR_SYNEL;	Q9RCT1,	DXR_SYNLE;	Q7U8C3,	DXR_SYNPX;
Q55663,	DXR_SYNY3;	Q9WZZ1,	DXR_THEMA;	Q72KE2,	DXR_THET2;
Q8RA28,	DXR_THETN;	Q73K78,	DXR_TREDE;	O83610,	DXR_TREPA;
Q83IC8,	DXR_TROW8;	Q83GY8,	DXR_TROWT;	Q9KPV8,	DXR_VIBCH;
Q87ME3,	DXR_VIBPA;	Q8DBF5,	DXR_VIBVU;	Q7MIG6,	DXR_VIBVY;
Q8D2G6,	DXR_WIGBR;	Q73GG3,	DXR_WOLPM;	Q8PML1,	DXR_XANAC;
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Q8ZH62,	DXR_YERPE;	Q667J3,	DXR_YERPS;	Q9X5F2,	DXR_ZYMMO;

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